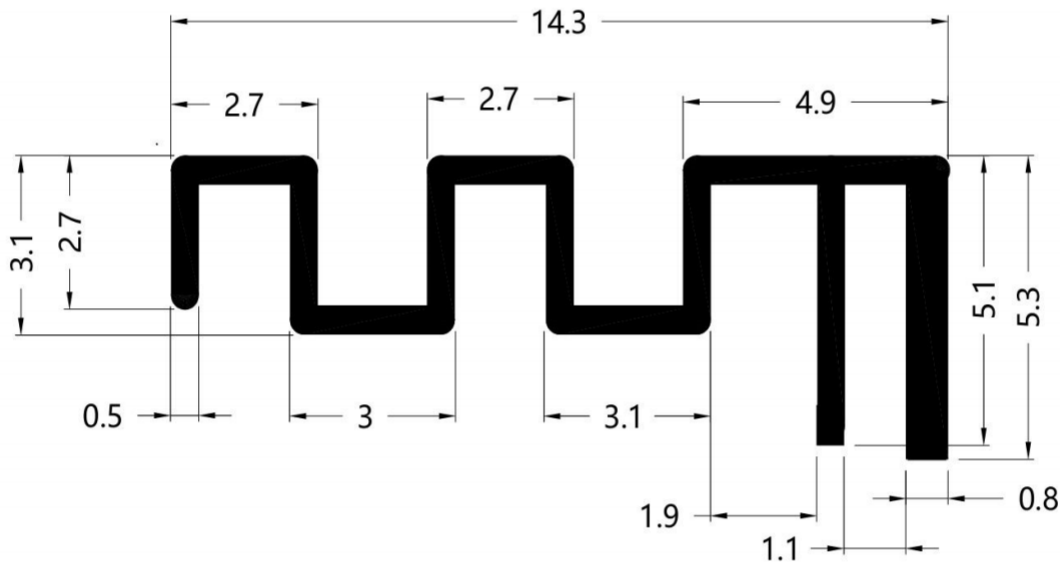


Antenna Specification

Product	: PCB ANT
Model Name	: PCB ANT 2.4G01
Manufacture	: Shenzhen Multi IR Technology Co., Ltd
Address	: 1st, 5th, 6th, 7th Floor, Building B, No. 8th North district, Shangxue Technology Park, Xinxue Community, Bantian Street, Longgang District, Guangdong, China
Test Item	: Antenna gain; Radiation pattern and efficiency
Antenna Type	: PCB Antenna
Frequency Range	: 2400MHz-2500MHz

Unit: mm

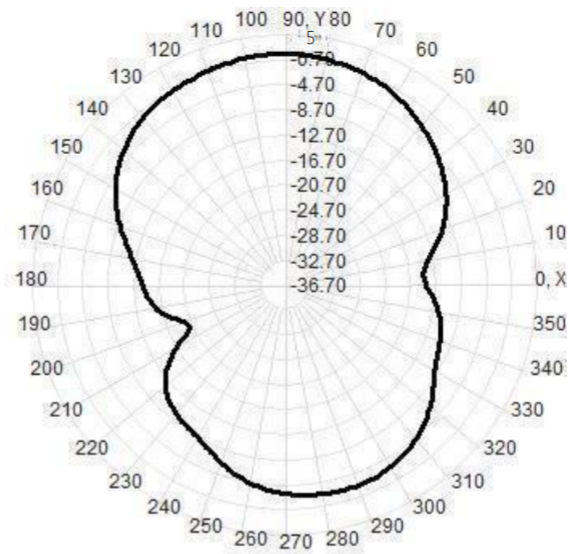


Test Data

Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Frequency (MHz)	2400.0	2405.0	2410.0	2415.0	2420.0	2425.0	2430.0	2435.0	2440.0	2445.0	2450.0	2455.0	2460.0	2465.0	2470.0	2475.0	2480.0	2485.0	2490.0	2495.0	2500.0
Efficiency (dB)	-2.30	-2.27	-2.20	-2.19	-2.23	-2.28	-2.38	-2.48	-2.56	-2.58	-2.57	-2.60	-2.63	-2.55	-2.49	-2.49	-2.51	-2.54	-2.60	-2.72	-2.88
Gain (dB)	3.76	3.44	3.39	3.15	3.07	2.89	2.92	2.93	2.94	3.31	3.33	3.71	3.71	3.99	4.24	4.19	4.36	4.05	4.19	3.69	3.81
Efficiency (%)	58.86	59.33	60.28	60.43	59.80	59.12	57.81	56.46	55.48	55.27	55.37	54.94	54.54	55.54	56.35	56.35	56.07	55.72	54.90	53.44	51.56
Directivity (dB)	6.06	5.71	5.58	5.34	5.30	5.17	5.30	5.42	5.49	5.88	5.90	6.31	6.35	6.55	6.72	6.68	6.87	6.59	6.80	6.41	6.69
Peak Gain Position (Theta)	158.00	164.00	156.00	166.00	154.00	165.00	154.00	163.00	158.00	163.00	163.00	163.00	165.00	163.00	166.00	163.00	166.00	166.00	164.00	166.00	166.00
Peak Gain Position (Phi)	123.00	120.00	123.00	117.00	122.00	122.00	122.00	130.00	127.00	132.00	133.00	134.00	166.00	139.00	167.00	167.00	169.00	169.00	171.00	172.00	173.00
Efficiency ThetaPol (%)	18.71	18.78	18.98	18.94	18.52	18.18	17.58	17.13	16.77	16.75	16.79	16.76	16.73	17.21	17.69	17.89	17.96	17.95	17.81	17.48	17.12
Efficiency PhiPol (%)	40.15	40.55	41.30	41.48	41.28	40.94	40.23	39.32	38.70	38.51	38.59	38.18	37.81	38.33	38.66	38.46	38.10	37.77	37.09	35.96	34.44
Upper Hem. Efficiency (%)	30.89	30.77	31.03	30.49	29.73	28.59	27.45	26.15	25.19	24.58	24.30	23.96	23.71	24.20	24.60	25.04	25.27	25.79	25.82	25.74	25.14
Lower Hem. Efficiency (%)	27.06	28.55	29.25	29.94	30.07	30.53	30.37	30.31	30.29	30.69	31.08	30.99	30.83	31.34	31.75	31.31	30.79	29.93	29.07	27.69	26.42

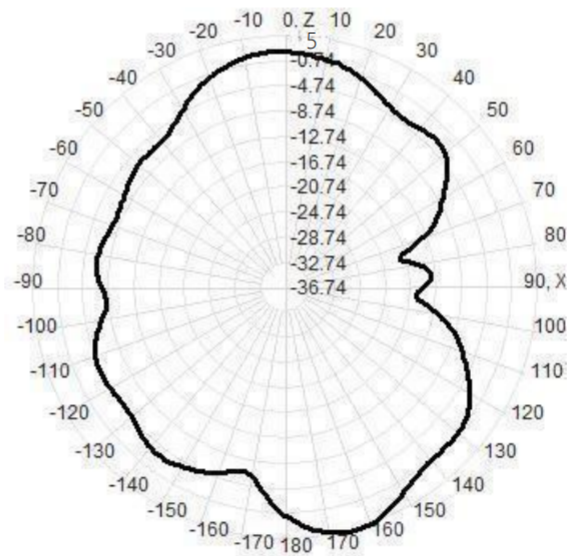
(1) X-Z Plane:

V Phi=0



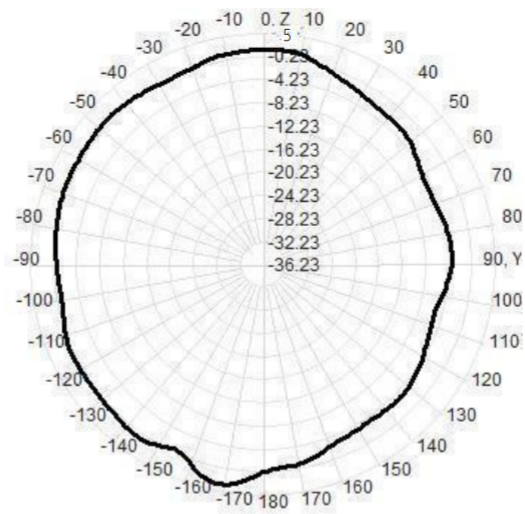
(2) Y-Z Plane:

V Phi=90

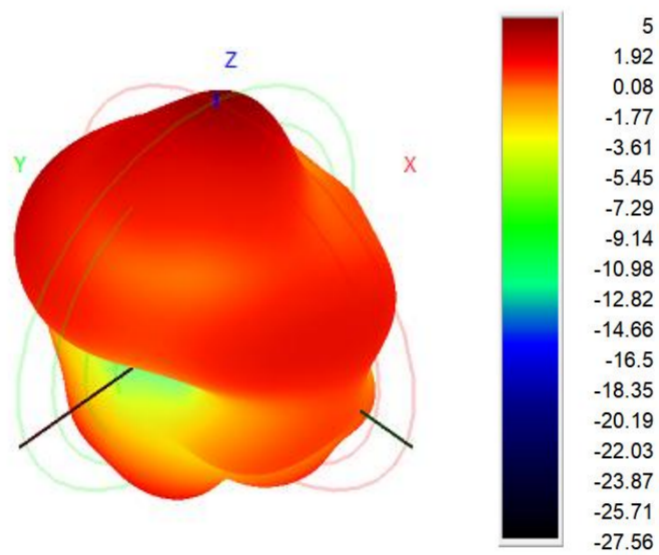


(3)X-Y Plane:

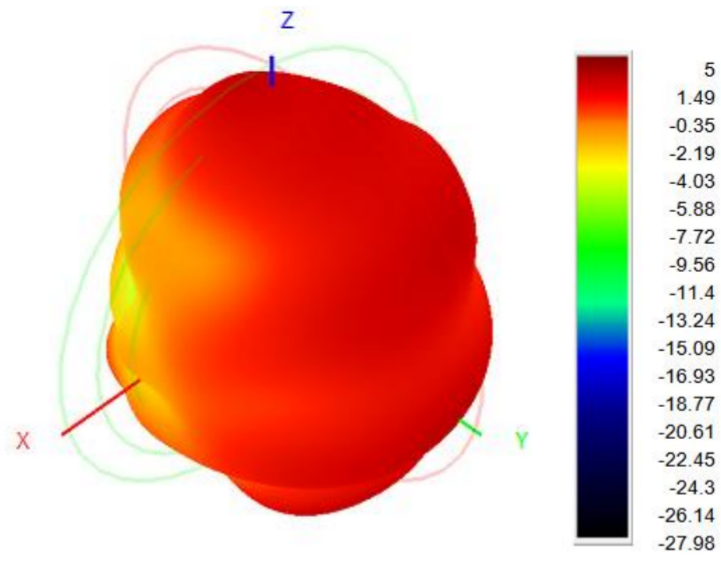
H Theta=90



3D Pattern for 2400MHz



3D Pattern for 2450MHz



3D Pattern for 2500MHz

